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ographic range of the form, concisely stated; the number of specimens in the Field Museum, with the localities represented. An asterisk preceding a species name indicates its representation in the Museum collection (needlessly it would seem, since the specimens are listed), and a dagger preceding the number of specimens indicates that some are available for exchange.

Descriptions are given of such species and subspecies as are not included in Ridgway's "Birds of North and Middle America" and the "Catalogue of Birds of the British Museum". This is one reason for the publication of Part II prior to Part I, which will await the completion of Ridgway's work, thereby covering forms already described by the latter, and avoiding duplication of labors.

In the present volume the birds of special interest to ornithologists of North America are the owls, kingfishers, goatsuckers, and hummingbirds. Recent studies are given liberal recognition, and many forms denied by the A. O. U. Committee, or else not passed upon by that body, are listed with brief comment upon their status. In this connection attention may be called to the remarks about *Cryptoglaux acadica brooksi* (page 37, footnote) as common-sense comment upon a previously muddled situation.

The ranges of the hummingbirds of western North America as given are not quite so shaky as in the A. O. U. *Check-List*, but the author "hedges" by not differentiating between breeding range and distribution at other seasons, lumping all under general statements. It is in just the manner in which this discrimination is made that the A. O. U. *Check-List* is so largely at fault. Of minor errors of the kind that seem bound to creep into a book of this nature, attention may be called to the following, as pertaining to western birds: On page 297, San Bernardino is misspelled twice in different ways, and Santa Margarita Island is wrongly described as adjacent to the coast of southern California. On page 29 the name *bendirei* is consistently misspelled on each of the several occasions on which it is used, and on page 44 *hoskinsii* is similarly misspelled. On page 129 Marin County is misspelled in giving the type locality of *Phalaenoptilus nuttalli californicus*. These blunders are not apt to give any trouble to Californian ornithologists, but misspelled locality names are frequently bothersome to students at a distance, investigating a region with which they are not familiar.

To bring together and to systematize the data necessary to a work as comprehensive as this "Catalogue" is an undertaking of no small dimensions, and ornithologists have occasion for gratitude to the author compiling such a hand-book, as well as to the institution that sponsors it.—H. S. SWARTH.

MINUTES OF COOPER CLUB MEETINGS

NORTHERN DIVISION

JANUARY.—The regular meeting of the Northern Division of the Cooper Club was held at the Museum of Vertebrate Zoology, Berkeley, on the evening of January 17, 1918, at eight o'clock. Dr. Evermann was in the chair. There was an attendance of 43, the following members being present: Messrs. Bryant, Carriger, Davis, Dr. Davis, Dixon, Evermann, Grinnell, Hansen, Kibbe, Lastreto, Snyder, Swarth, van Straaten, and Wheeler; Mesdames Allen, Bamford, Ferguson, Grinnell, Gunn, Kluegel, Knappen, Meade, Parsons, Randolph and Schlesinger. Among the visitors were Mrs. Evermann, Miss Ferguson, Mrs. Wheeler, Mr. Meade and Mr. Schlesinger.

The minutes of the December meeting were read and approved and Mr. van Straaten was elected to membership in the club. Dr. R. M. Leggett, 607 Butler Bldg., San Francisco, was proposed for membership by Mr. Harold Hansen, and Mr. Adrey Borell, Route H, Box 31, Fresno, by Mr. J. Grinnell. The resignation of Mrs. Margaret Boardman was accepted.

A motion was carried that nominees for office for the coming year be elected by acclamation. Mr. Lastreto presided, while the club elected Dr. Barton W. Evermann, president, Prof. J. O. Snyder, vice-president, Mrs. A. S. Allen, secretary, and Mr. A. S. Kibbe, representative on the committee for the conservation of wild life.

Prof. J. O. Snyder then spoke on the "collecting of birds' eggs and the training of a naturalist", making a plea for the protection of the divine spark in the small boy, training him in proper methods of collecting material and tabulating information. After some discussion the club adjourned.—AMELIA S. ALLEN, *Secretary*.

FEBRUARY.—The regular meeting of the Northern Division of the Cooper Club was held at the Museum of Vertebrate Zoology, February 21, at 8 p. m. As both the president and vice-president were absent Mr. Lastreto was asked to preside. The following members were present: Messrs. Anderson, Bryant, Cooper, Dixon, Grinnell, Hansen, Kibbe, Leggett, Lastreto, van Straaten, Swarth, Wheeler; Mesdames Allen, Bamford, Davidson, Ferguson, Grant, Grinnell, Gunn, Head, Knappen, Kibbe, Lombardi, Parsons. Visitors: Messrs. Austin, Hunt, Lombardi, Miss Ferguson, Miss Griffith, Mrs. Gunn, and Mrs. Wheeler.

The minutes of the January meeting were read and approved and those for the November, December, and January meetings of the Southern Division were read. Mr. Adrey Borell and Dr. Leggett, whose names were proposed at the last meeting were elected to membership as also the list of persons forwarded by the Southern Division, submitted for approval.

On recommendation of the executive committees of the two Divisions, Mr. Grinnell and Mr. Swarth were re-elected editors of *THE CONDOR*, and Messrs. Chambers and Law, business managers.

Dr. Bryant then entertained the club with a very interesting account of "the birds of Glacier Park." Adjourned.—AMELIA S. ALLEN, *Secretary*.

APRIL.—The regular meeting of the Northern Division of the Cooper Ornithological Club was held at the Museum of Vertebrate Zoology of the University of California, Berkeley, April 18 at 8 P. M. Dr. Evermann was in the chair and the following members were present: Messrs. Cooper, Davis, Grinnell, Kibbe, Lastreto, Loomis, Trenor; Madames Allen, Bamford, Ferguson, Grinnell, Gunn, Head, Kibbe, Kluegel, Knappen, Meade, Schlesinger. Visitors present were Mr. Austin, Mrs. Evermann, Miss Ferguson, Mr. Meade, and Mr. Schlesinger.

The minutes of the February meeting of the Northern Division were read and approved. (The March meeting was omitted because of the crowded program of Semi-centennial week at the University.) The minutes of the Southern Division meeting held in February were also read. The name of Frederick Alexander Schneider, San Jose, was proposed by H. S. Swarth, and the names proposed at the Southern Division meetings in November, December and January (fifteen in all) were approved. The resignation of Dr. Gibbons was read but was laid on the table as it seemed advisable that the club establish an absentee list and remit the dues of members entering the army. On motion of Mr. Lastreto, the matter was referred to a committee consisting of the President and one other member to be appointed by the President to report at the May meeting. The Business Manager's report was read by Mr. Grinnell and heartily commended by the club. It was decided that the May meeting of the club should be held at the home of the Secretary on Sunday afternoon, May 19.

Miss Elizabeth Ferguson then gave an interesting account of the pollination of flowers by hummingbirds. Following the discus-

sion and an examination of the specimens of hummingbirds exhibited, the club adjourned. —AMELIA S. ALLEN, *Secretary*.

SOUTHERN DIVISION

JANUARY.—Regular monthly meeting of the Southern Division, Cooper Ornithological Club, was held January 31, 1918, at the Museum of History, Science and Art. President Miller officiated, with the following members present: Messrs. Appleton, Bishop, Brown, Calder, Chambers, Daggett, Enoch, Esterly, Hanford, Holland, Howard, Lamb, Law, Reis, Rich, Shepardson, Trenor, Willett and Wyman; and Mrs. Law. Five visitors were present, among them Volney Enoch, Mrs. Howard, and Miss Winters.

Minutes of the December meeting were read and approved, followed by reading of the minutes of the Northern Division for the previous three months. Four persons whose names were presented at the December meeting were elected to membership. New names presented were: Miss Iilo Winters, R. 2, Box 53, Anaheim, by James A. Calder; Arthur Herbert Norton, 22 Elm St., Portland, Maine, and E. W. Hadler, Painesville, Ohio, by W. Lee Chambers; T. Boyer, Continental National Bank, and J. Walcott Thompson, 527 East First South St., Salt Lake City, by A. O. Treganza; also two names from the Northern Division.

In response to a communication from the Northern Division, it was voted that the Cooper Club should be represented in conjunction with the Western Society of Naturalists at the meeting of the Pacific Division of the Association for the Advancement of Science. A formal canvass of the members disclosed no one who wished to participate in the program at that meeting.

Election of officers for the coming year then followed. Dr. L. H. Miller was nominated for re-election as president, by Mr. Willett; Mr. Law nominated Mr. Willett for vice-president; and Mr. Shepardson nominated Mr. Wyman for re-election as secretary. All nominations were promptly voted closed; and on motion by Mr. Law, the secretary was instructed to cast an electing ballot for nominees.

Formal business ended, various members spoke briefly on recent collecting experiences. Mr. Willett reported having taken three Heermann Gulls lately (in addition to one taken some years ago), with white primary coverts, and showed photos of same. Dr. Bishop exhibited some interesting thrushes and song sparrows. His experience indicates that the Dwarf Hermit Thrush keeps to thick brush well up the canyons,

while the Alaska species favors more open places, generally on more level ground.

Inspection of a tray of hummingbirds, swifts, and goatsuckers, and discussion of the same, proved an interesting feature of the meeting. Adjourned.—L. E. WYMAN, *Secretary.*

FEBRUARY.—Regular monthly meeting of the Southern Division, Cooper Ornithological Club, was held at 8 p. m., February 28, at the Museum of History, Science and Art. Vice-president Willett was in the chair, with the following members present: Messrs. Appleton, Bishop, Brown, Brouse, Chambers, Enoch, Esterly, Hanford, Holland, Howell, Law, Little, Morcom, Reis, Rich, Shepardson, Stormont, Tallman and Wyman; and Mrs. Law, Mrs. Howell, Mr. Webber, and Master George Willett were visitors.

Minutes of the January meeting were read and approved. Miss Iilo A. Winters, Arthur Herbert Norton, T. Boyer, J. Walcott Thompson, and E. W. Hadler, were elected to membership; also, H. van Straaten, and Miss Edna B. Billings, whose names were received from the Northern Division. New names presented for membership were: Edmund Silliman, Salinas, and Willard Hill, Wasco, Kern Co., Calif., by O. P. Silliman; W. B. Johnstone, Edgewood, B. C., by J. A. Munro; W. D. Richardson, 4215 Prairie Ave., Chicago, Emerson A. Stoner, Box 444, Benicia, Calif., and Frank C. Evans, Crawfordsville, Ind., by W. Lee Chambers.

On motion by Dr. Rich, the members approved the action of the executive committee in re-appointing Messrs. Grinnell and Swarth as editors of *THE CONDOR*, and Messrs. Law and Chambers as business managers, for the ensuing year.

Business Manager's report for 1917 was submitted and explained by Mr. Law. On motion by Mr. Shepardson the report, which showed unexpectedly gratifying financial conditions, was accepted, and a vote of thanks tendered to Messrs. Law and Chambers for their able work in behalf of the Club.

There followed an hour of general discussion and inspection of a series of horned larks and flycatchers. Adjourned.—L. E. WYMAN, *Secretary.*

MARCH.—Regular monthly meeting of the Southern Division, Cooper Ornithological Club, was held at the Museum of History, Science and Art, March 28, at 8:00 p. m. In the absence of President and Vice-president, Mr. H. M. Holland was acclaimed Chairman. Other members present were: Messrs. Bishop, Brouse, Daggett, Esterly, Hanaford,

Little, Nokes, Reis, Rich and Stormont. Minutes of the February meeting were read and approved, and the candidates whose names were presented at that meeting were duly elected to membership.

Dr. Bishop exhibited a number of recently-taken specimens of Rufus and Allen Hummingbirds, showing the similarities of the two species, and gave an interesting talk on them. A considerable series of study skins of Jays, Crows and Red-wings was inspected and discussed. Adjourned.—W. LEE CHAMBERS, *Secretary pro tem.*

APRIL.—Regular monthly meeting of the Southern Division, Cooper Ornithological Club, was held at the Museum of History, Science and Art, April 25, at 8:00 p. m. President Miller officiated, with the following members present: Messrs. Bishop, Brown, Chambers, Colburn, Daggett, Esterly, Hanaford, Holland, Howell, Law, Little, Nokes, Reis, Robertson, Shepardson, Stormont, Wyman, and Mrs. Law. Mrs. Bishop and Mrs. Howell were visitors.

Minutes of the Northern Division were read. Names presented for membership were: Miss May T. Cooke, Washington, D. C., by T. S. Palmer; Donald A. Gilchrist, Flagstaff, Ariz., and Gorm Loftfield, Tucson, Ariz., by W. P. Taylor; Ralph Lawson, Salem, Mass.; G. Franklin Brown, Needham, Mass.; Stanley Clisby Arthur, New Orleans, La.; Lombard Carter Jones, M. D., Falmouth, Mass.; Gardner D. Stout, New York City; and Mrs. Jennie E. B. Webster, New York City, by W. Lee Chambers; John Zerlang and Lawrence Zerlang, Samoa, Humboldt Co., California, by John M. Davis; and Walter C. Henderson, Washington, D. C., by Robert W. Williams.

A letter from Dr. W. P. Taylor, of the Biological Survey, in regard to the status of the Heath Hen and the Martha's Vineyard Reservation, was read by Mr. Law, on whose motion, duly seconded and carried, the Secretary was instructed to write the Chairman of the Massachusetts Fish and Game Commission for information on the subject. Mr. Chambers invited the members to hold the May meeting at his home in Eagle Rock. The invitation was quickly accepted.

In the general discussion that followed the business meeting various members told of recent collecting experiences. Mr. Howell found the Yuma Horned Lark at Mecca in March, but Dr. Bishop was unable to include it in a list of forty-two species found a month later at Thermal, which station is supposed to be well within the range limit of this lark. Mr. Wyman recorded the same

number of species observed during a five-day stay at Palm Springs in April. A series of meadow-larks, orioles and crossbills was on the table for general discussion and study. Adjourned.—L. E. WYMAN, *Secretary.*

SAN BERNARDINO CHAPTER

After a vacation of some months the meetings of the San Bernardino Valley Chapter began again, the first meeting of the season being held at the home of Mr. Hanna, Colton, November 20, 1917. The subject for study was "Jays", and skins and eggs of several species were displayed. Wright M. Pierce, Judge Wall, Wilson Hanna and French Gilman displayed a number of skins, and H. Arden Edwards showed fine sets of eggs of many species, including some of the European Jay. French Gilman led the discussion of the various jays in California and the United States, which was followed by a general exchange of experiences. Full justice was then done to the refreshments served by Mrs. Hanna. Those present were: Judge Wall, R. B. Herron, Wright M. Pierce, H. Arden Edwards, E. D. Palmer, A. F. Gilman, C. Mabel Gilman, Sarah E. Gilman, M. French Gilman, C. G. Wiggins, Judge Hanna, Mrs. J. B. Hanna, Wilson C. Hanna, and Mrs. Wilson C. Hanna.

The second meeting was held December 18, at the home of Judge J. B. Hanna at Colton. At this meeting the subject of ducks was taken up, and eggs and skins were in evidence. This proved a popular topic, and even the more lukewarm enthusiasts sat up and took notice. M. French Gilman gave the results of a recent visit to Salton Sea to investigate the rumors of dead ducks along the shores of the sea. He reported that in following the water-line for 330 feet he found 185 dead ducks, 5 Coots, 2 Florida Gallinules, 4 Eared Grebes, 1 cormorant, 2 Killdeers, and 1 small sandpiper.

A meeting was held January 20, at the home of H. Arden Edwards at Claremont. The attendance was not as large as it should have been; for the sight of Mr. Edwards's collection of eggs and nests was worth going far to see. A real "norther" kept some of the people at home, but those present were glad they had braved the wind. Visitors present were George Willett and C. D. Hegner, of Los Angeles. Refreshments served by Mrs. Edwards rounded out a most enjoyable meeting.—M. FRENCH GILMAN, *Secretary.*

MARCH.—The regular meeting was held March 17 at the home of M. French Gilman, Banning, California. The subject of grouse,

and partridges was taken up and specimens of several kinds were shown. A case containing a group of Valley Quails mounted by R. B. Herron of Urbita, California, excited much admiration.

Present were the following members and visitors: Wilson C. Hanna, Mr. and Mrs. J. B. Hanna and Mrs. A. L. Hubrich, all of Colton; Judge Edward Wall, E. D. Palmer, Clifford Smith and W. D. La Niece, of San Bernardino; R. B. Herron, Urbita; Mr. and Mrs. H. A. Edwards and Mr. and Mrs. C. D. Hegner of Claremont; R. Bruce Findlay and Dr. F. D. West of Beaumont; A. F. Beal of Long Beach; Mrs. C. M. Boss and Miss Mary A. Boss of Duluth, Minn. In view of the fact that some of the members were expecting to be in the field much of the time it was decided not to hold any more meetings until next fall.—M. FRENCH GILMAN, *Secretary.*

DIRECTORY OF MEMBERS OF THE COOPER ORNITHOLOGICAL CLUB

Revised to May 1, 1918

(Residence in California unless otherwise stated. Year following address indicates date of election; year in parenthesis indicates date honorary member joined the Club. Star preceding name indicates life member.)

HONORARY MEMBERS

Allen, Dr. J. A., Amer. Museum Nat. Hist., New York, N. Y. 1910.
 Henshaw, H. W., Biol. Survey, Washington, D. C. 1909.
 Merriam, Dr. C. Hart, 1919 16th St., Washington, D. C. 1909.
 Nelson, E. W., Biol. Survey, Washington, D. C. (1904) 1917.
 Ridgway, Robert, 3306 New Hampshire Ave., N. W., Washington, D. C. 1905.
 Stephens, Frank, 3746 Park Blvd., San Diego. (1894) 1912.

ACTIVE MEMBERS.

Alexander, Miss Annie M., 92 Seaview Ave., Piedmont. 1908.
 Allen, Mrs. Amelia S., 37 Mosswood Road, Berkeley. 1913.
 Allen, A. A., McGraw Hall, Ithaca, N. Y. 1911.
 Anderson, Ernest M., 2524 Asquith St., Victoria, B. C., Canada. 1915.
 Anderson, Malcolm P., 2721 Buena Vista Ave., Alameda. 1901.
 Anderson, Dr. Rudolph M., Biol. Div., Geol. Survey, Ottawa, Ont., Canada. 1916.